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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,114	09/24/2003	Akihiko Mochida	17049	7178

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EXAMINER

CZEKAJ, DAVID J

ART UNIT	PAPER NUMBER
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2621

DATE MAILED: 07/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/670,114

Applicant(s)

MOCHIDA ET AL.

Examiner

Dave Czekaj

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 February 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 4-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 4-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>10/27/05</u>  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments with respect to claims 4-9 have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karasawa (US 5,196,928) in view of Loonen (5255092) in further view of Saeger (US 5,287,188).

As for claim 4, 8, and 9, Karasawa teaches of an image pickup element that constitutes one image-captured surface by arranging a plurality of scanning lines having a first number of pixels (Karasawa: Column 3, Lines 38-42); a drive circuit for outputting to the image pickup element a drive signal with a first frequency for sequentially reading an image-captured signal image- captured on the image pickup surface of the image pickup element for every scanning line (Karasawa: Column 3, Lines 43-45); a line memory having a memory capacity which can store one scanning line of image-captured signals read from the image pickup element (Karasawa: Column 3, Lines 47-65); a writing signal generating circuit for outputting a writing signal with the first frequency to the line memory and for writing the image-captured signal and a reading

signal generating circuit for outputting a reading signal with a frequency to the line memory and for reading image-captured signals stored in one scanning line (Karasawa: Column 3, Lines 47-65); a video signal processing circuit for performing video signal processing on the image-captured signals read with the second frequency from the line memory (Karasawa: Column 3, Lines 43-47). However, Karasawa fails to disclose reading a signal with a second frequency which is higher than the first frequency and the frequency dividing circuit as claimed. Loonen teaches that prior art computing systems cannot accurately adjust a clock frequency (Loonen: column 1, lines 35-55). To help alleviate this problem, Loonen discloses "reading a signal with a second frequency which is higher than the first write frequency" (Loonen: column 3, lines 40-50). Saeger teaches that prior art computations systems encounter problems when changing display ratios (Saeger: column 1, lines 40-50). To help alleviate this problem Saeger discloses an "oscillator for generating a clock signal" (Saeger: figure 12), and "a frequency dividing circuit which divides the clock signal to generate a signal for the drive circuit" (Saeger: figure 12, column 3, lines 48-55). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Karasawa, add the different frequencies taught by Loonen, and add the processing taught by Saeger in order to obtain an apparatus that can accurately adjust a clock signal to correctly display a video signal.

As for claim 5, most of the limitations of the claim have been discussed in the above rejection of claim 4. Karasawa also teaches of the video signal processing

means has an enlarge/reduce processing function for performing horizontal enlargement or reduction (Karasawa : Column 5, Lines 1-8).

As for claim 6, Saeger teaches superimposing position control means for controlling a superimposing position of the superposing means in accordance with an image pickup element self-contained in the connected image pickup unit (Saeger: Column 12, Lines 49-68).

As for claim 7, most of the limitations of the claim have been discussed in the above rejection of claim 4. Karasawa also teaches of adding a second image pickup unit, which shows greater detail than the first but with all the circuitry mentioned above (Karasawa : Column 2, Lines 58-68).

### ***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Czekaj whose telephone number is (571) 272-7327. The examiner can normally be reached on Monday - Friday 9 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DJC

*Mehrdad Dastouri*  
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SUPERVISORY PATENT EXAMINER  
TC 2600